

Title (en)
MODIFIED ORTHOPOXVIRUS VECTORS

Title (de)
MODIFIZIERTE ORTHOPOXVIRUS-VEKTOREN

Title (fr)
VECTEURS D'ORTHOPOXVIRUS MODIFIÉS

Publication
EP 3735466 A4 20220112 (EN)

Application
EP 19736067 A 20190104

Priority
• US 201862614349 P 20180105
• US 201862784371 P 20181221
• CA 2019050014 W 20190104

Abstract (en)
[origin: WO2019134048A1] The disclosure relates to modified orthopoxvirus vectors, as well as methods of using the same for the treatment of various cancers. The disclosure provides modified orthopoxvirus vectors that exhibit various beneficial therapeutic activities, including enhanced oncolytic activity, spread of infection, immune evasion, tumor persistence, capacity for incorporation of exogenous DNA sequences and safety. The viruses we have discovered are also amenable to large scale manufacturing protocols.

IPC 8 full level
C12N 15/863 (2006.01); **A61K 35/76** (2015.01); **A61K 35/768** (2015.01); **A61P 35/00** (2006.01); **C07K 14/07** (2006.01); **C12N 5/10** (2006.01); **C12N 7/01** (2006.01); **C12N 15/39** (2006.01)

CPC (source: EP IL KR US)
A61K 35/76 (2013.01 - KR); **A61K 35/768** (2013.01 - EP IL US); **A61P 35/00** (2018.01 - KR); **C07K 14/545** (2013.01 - US); **C12N 7/00** (2013.01 - EP IL KR US); **C12N 9/22** (2013.01 - US); **C12N 15/86** (2013.01 - EP IL KR US); **C12N 27/10/24121** (2013.01 - EP IL KR US); **C12N 27/10/24132** (2013.01 - EP IL KR US); **C12Y 306/01023** (2013.01 - US)

Citation (search report)
• [A] WO 2015027163 A1 20150226 - UNIV PITTSBURGH [US]
• [A] J. DIMIER ET AL: "Deletion of Major Nonessential Genomic Regions in the Vaccinia Virus Lister Strain Enhances Attenuation without Altering Vaccine Efficacy in Mice", JOURNAL OF VIROLOGY, vol. 85, no. 10, 15 May 2011 (2011-05-15), pages 5016 - 5026, XP055194226, ISSN: 0022-538X, DOI: 10.1128/JVI.02359-10
• See also references of WO 2019134048A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2019134048 A1 20190711; AU 2019205036 A1 20200820; BR 112020013769 A2 20201201; CA 3122431 A1 20190711; CN 113039277 A 20210625; EP 3735466 A1 20201111; EP 3735466 A4 20220112; IL 275813 A 20200831; JP 2021510082 A 20210415; JP 2023126868 A 20230912; JP 7312412 B2 20230721; KR 20200121297 A 20201023; MX 2020007010 A 20201210; SG 11202006457Y A 20200828; US 11802292 B2 20231031; US 2020392535 A1 20201217; US 2024132913 A1 20240425

DOCDB simple family (application)
CA 2019050014 W 20190104; AU 2019205036 A 20190104; BR 112020013769 A 20190104; CA 3122431 A 20190104; CN 201980017640 A 20190104; EP 19736067 A 20190104; IL 27581320 A 20200702; JP 2020557368 A 20190104; JP 2023108025 A 20230630; KR 20207022477 A 20190104; MX 2020007010 A 20190104; SG 11202006457Y A 20190104; US 201916959632 A 20190104; US 202318461241 A 20230904